

NSLS OHSAS Facility Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

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|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------|
| Name(s) of Risk Team Members: NSLS OHSAS Committee | Point Value → Parameter ↓ | 1 | 2 | 3 | 4 | 5 |
| Area/Facility Description Title: General ODH (Oxygen Deficiency Hazard) Issues. | Occupancy or Use | ≤once/year | ≤once/month | ≤once/week | ≤once/shift | >once/shift |
| Area/Facility # (if applicable): LS-FRA-0009 | | | | | | |
| Area/Facility Description: General ODH Issues throughout the NSLS complex. | Severity | First Aid Only | Medical Treatment | Lost Time | Partial Disability | Death or Permanent Disability |
| | Likelihood | Extremely Unlikely <<1x/20yrs | Unlikely 1x/10-20yrs | Possible >1x/10-20yrs | Probable 1x/yr | Multiple >1x/yr |
| Approved by: W. R. Casey Date: 10/27/05 Rev.#: 1 <u>Revision Log</u> | | | | | | |
| Reason for Revision (if applicable): | | | | Comments: This FRA refers to ODH Class "0" areas, which are the only ODH areas currently found in the NSLS complex. | | |

| Physical Item or Activity | Hazard(s) | Before Controls | | | | Initial Controls | After Initial Controls | | | | Control(s) Added to Reduce Risk | After Additional Controls | | | | % Risk Reduction |
|---------------------------|-----------------------------------------------------------------------------|-----------------|------------|--------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------|--------------|-------------|---------------------------------|---------------------------|------------|--------------|-------------|------------------|
| | | Occupancy A | Severity B | Likelihood C | Risk* AxBxC | | Occupancy A | Severity B | Likelihood C | Risk* AxBxC | | Occupancy A | Severity B | Likelihood C | Risk* AxBxC | |
| Occupancy in an ODH area | Oxygen deficiency (asphyxiation) resulting in death or permanent disability | 5 | 5 | 3 | 75 | Postings, ODH alarms (local and remote), control room alarm response, automatic ventilation, training, procedures, emergency automatic shut-off, Tier 1, emergency response, ODH analysis, design review | 5 | 5 | 1 | 25 | | | | | | |
| | Being struck & injured by an object due to pressure release | 5 | 2 | 2 | 20 | Postings, ODH alarms (local and remote), control room alarm response, training, procedures, Tier 1, emergency response, design review | 5 | 2 | 1 | 10 | | | | | | |

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| | | Before Controls | | | | | After Initial Controls | | | | | After Additional Controls | | | | |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------|--------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------|--------------|-------------------------|---------------------------------|---------------------------|------------|------------------------------|-------------|------------------|
| Physical Item or Activity | Hazard(s) | Occupancy A | Severity B | Likelihood C | Risk* AxBxC | Initial Controls | Occupancy A | Severity B | Likelihood C | Risk* AxBxC | Control(s) Added to Reduce Risk | Occupancy A | Severity B | Likelihood C | Risk* AxBxC | % Risk Reduction |
| | Impaired visibility during an ODH event, resulting in the inability to escape the ODH atmosphere, thereby resulting in death or permanent disability | 5 | 5 | 2 | 50 | Tier 1, emergency exit signs, adequate facility illumination, egress path clear of obstructions, training, procedures, emergency response, ODH alarms (local and remote), control room alarm response | 5 | 5 | 1 | 25 | | | | | | |
| Further Description of Controls Added to Reduce Risk: | | | | | | | | | | | | | | | | |
| *Risk: | 0 to 20 Negligible | 21 to 40 Acceptable | | | | 41 to 60 Moderate | | | | 61 to 80 Substantial | | | | 81 or greater Intolerable | | |